

Sub
145

ABSTRACT OF THE DISCLOSURE

A newly proposed steel consists of 8.0-35.0wt.% Cr, 0.05-1.20wt.% C, 0.05-3.0wt.% at least one of Ti, Nb, Zr, V and W and the balance being essentially Fe and has the structure that a total amount of Ti, Nb, Zr V and/or W carbide precipitations distributed in a steel matrix is adjusted to 0.1wt.% or more. The steel is bestowed with excellent abrasion-resistance by distribution of carbide precipitations. These carbides have nearly the same hardness as hard particles such as alumina and silicon carbides which causes abrasive abrasion. Due to such excellent abrasion-resistance, a weaving machine member, a sewing needle, an agricultural machine member such as a mowing tooth or a cutter blade made of the steel can be used over a long period.

BEST AVAILABLE COPY